

Currently Existing Area Code

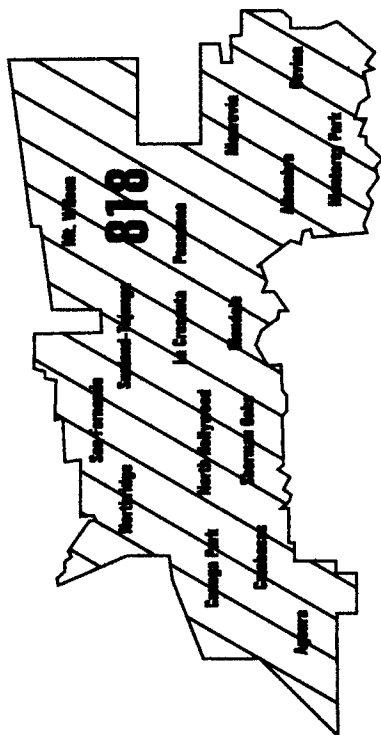


FIG.1: Communities Involved

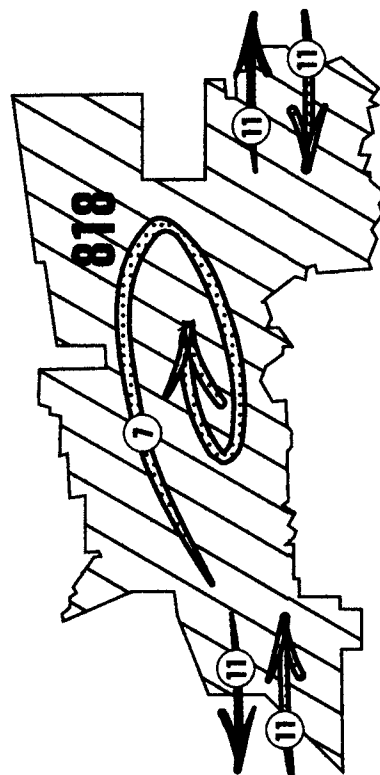


FIG.1A: Dialing Patterns

Dialing Options	
7 Digit Dialing Within 818 123-4567	
11 Digit Dialing Into Area 1+818+123-4567	
Out of Area 1+NXX+123-4567	

This map shows the established dialing patterns of an area code before being impacted by area code relief. These dialing patterns will be disrupted by either a split or a standard overlay.

The Standard Overlay Method

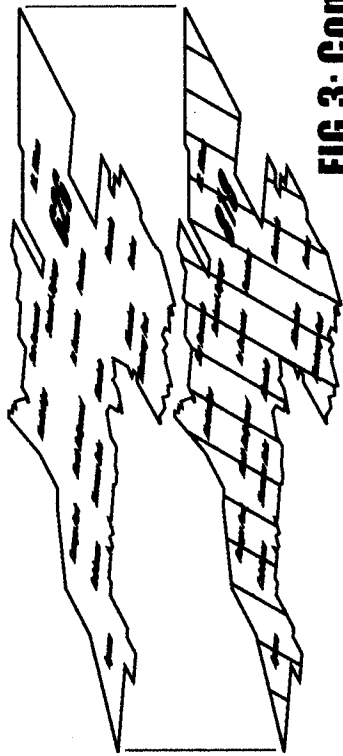


FIG.3: Communities Involved

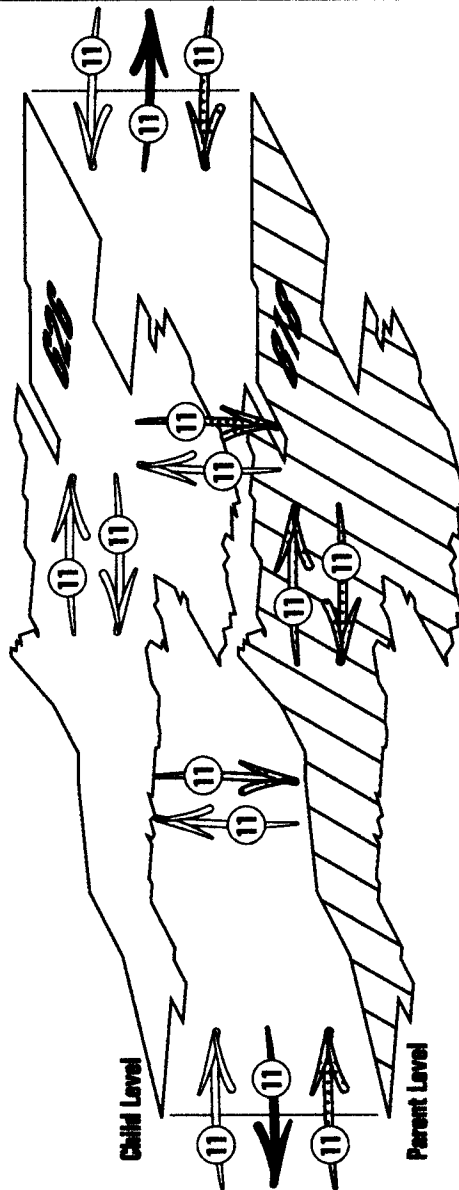


FIG.3A: Dialing Patterns

Dialing Options	
7 Digit Dialing Thought to be impractical for this Overlay Method	
Mandatory 11 Digit Dialing	
Into Area	1+818+123-4567
	or 1+626+123-4567
Out of Area	1+NXX+123-4567
Within 818/626 Area	1+818+123-4567
	or 1+626+123-4567

With abbreviated dialing abandoned, the overlay levels are not unified by a distinctive dialing plan. The concern that this mix of area codes will cause hardship and confusion for citizens has prevented overlays from becoming widely accepted.

The Unified Dialing Plan for Overlays

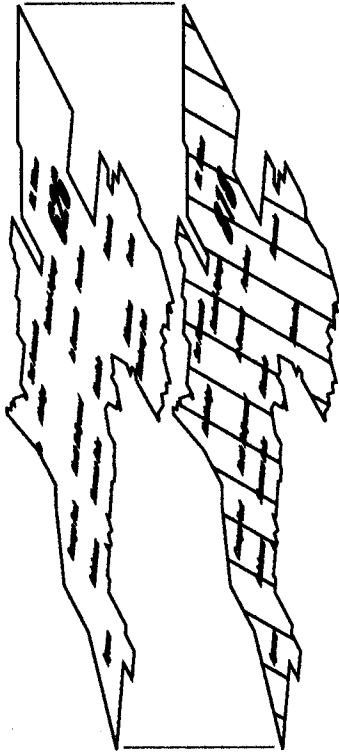


FIG.4: Communities Involved

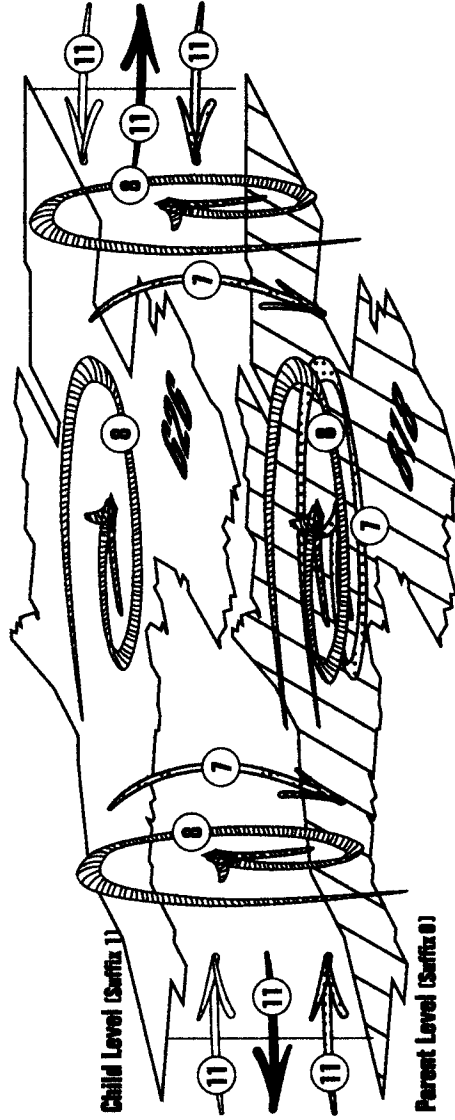


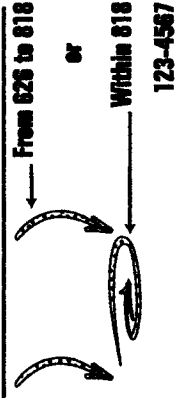
FIG.4A: Dialing Patterns

This overlay method provides for long term relief AND maintains the integrity of the original dialing area by:

- 1) Preserving established 7 digit dialing to all parent level numbers from any level within the overlay area.
- 2) Unifying all levels of the overlay with a simple 8 digit (7+suffix) dialing system.
- 3) Allowing for optional (not mandatory) 11 digit dialing between levels of the overlay.

Dialing Options

7 Digit Dialing - Preserved (with timing).



Unified - 8 Digit Dialing (7+X)

Within 818/628 Area
123-4567+0 (for 818)
123-4567+1 (for 628)



11 Digit Dialing

Into Area

1+818+123-4567
or 1+628+123-4567



Out of Area

1+NXX+123-4567



Note: For Optional 11 Digit Dialing
Within 818/628 Area
Refer to Fig. 3A

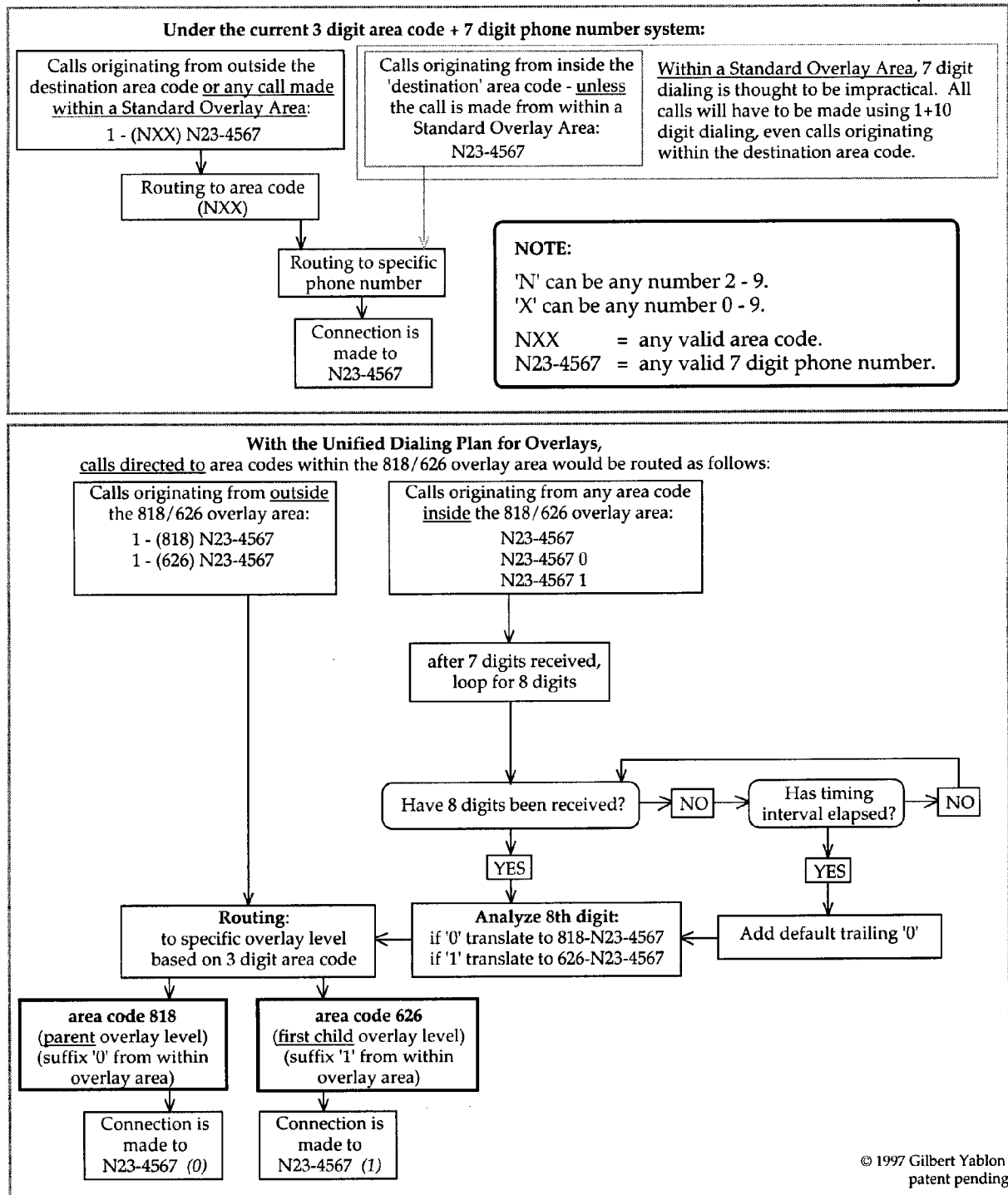


FIG. 5

Note: (NAA) - (N J J) are distinct 3 digit area codes.
 N..... = any number 2-9
 A,B,C,D,E,F,G,H,I,J = any numbers 0-9

Here is how the new numbers would be allocated:

(NAA) N23-4567 current number now.

(NAA) N23-4567 0 current number under my proposed plan.
note: the trailing '0' would not need to be entered by the user. Phone company equipment will automatically add the '0' after a fixed time (3 - 7 seconds) to complete the call if only 7 digits have been entered by the user. **This feature makes the plan completely non-disruptive.**

(NBB) N23-4567 1 first generation of new numbers under my proposed plan.

and if more numbers
 are later needed...

(NCC) N23-4567 2
 (NDD) N23-4567 3
 (NEE) N23-4567 4
 (NFF) N23-4567 5
 (NGG) N23-4567 6
 (NHH) N23-4567 7
 (N I I) N23-4567 8
 (N J J) N23-4567 9

note: the trailing '1 - 9' would need to be entered by the user. Since these are new numbers, they will always be known as 8 digit numbers from the time they are first issued, and will be memorized, listed in directories and dialed as such.

Since these area codes would be grouped in a single overlay area, dialing within the overlay area to any of these area codes could be accomplished simply by dialing the 7 digit number + the appropriate suffix under the Unified Dialing Plan for Overlays.

 At some point far into the future even more numbers might be needed. The same non-disruptive system could be used to expand again at that time.

(NAA) N23-4567 00 current number far into the future.
note: neither of these trailing '0's would need to be entered. If only 7 digits were entered, the phone company would automatically add the '0' or '00' after the fixed time. Thus, the original 7 digit number could still be reached by only dialing the original 7 digits.

(NBB) N23-4567 10 first generation of new numbers far into the future.
 (NCC) N23-4567 20
 (NDD) N23-4567 30
 (NEE) N23-4567 40
 (NFF) N23-4567 50
 (NGG) N23-4567 60
 (NHH) N23-4567 70
 (N I I) N23-4567 80
 (N J J) N23-4567 90

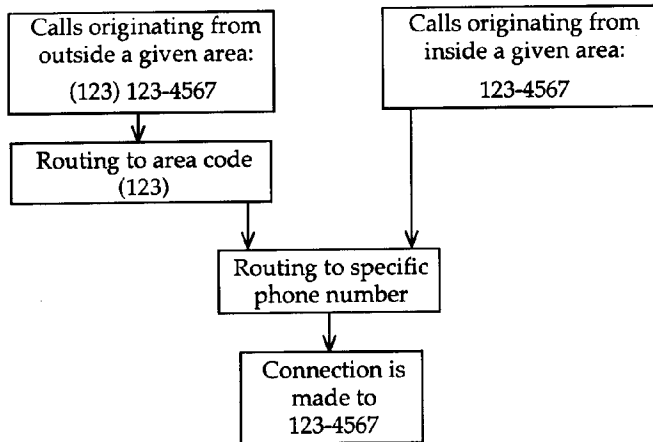
note: the new trailing '0' would not need to be dialed. Phone company equipment would automatically add the trailing '0' just as it would for the original 7 digit numbers. So, no directories or habits would need updating even for these numbers.

(NAA) N23-4567 01 (02 03 04 05 06 07 08 09) second generation of new numbers.
 (NBB) N23-4567 11 (12 13 14 15 16 17 18 19)
 (NCC) N23-4567 21 (22 23 24 25 26 27 28 29)
 (NDD) N23-4567 31 (32 33 34 35 36 37 38 39)
 (NEE) N23-4567 41 (42 43 44 45 46 47 48 49)
 (NFF) N23-4567 51 (52 53 54 55 56 57 58 59)
 (NGG) N23-4567 61 (62 63 64 65 66 67 68 69)
 (NHH) N23-4567 71 (72 73 74 75 76 77 78 79)
 (N I I) N23-4567 81 (82 83 84 85 86 87 88 89)
 (N J J) N23-4567 91 (92 93 94 95 96 97 98 99)

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 patent pending

FIG. 6

Under the current 3 digit area code + 7 digit phone number system:



Under my proposed 3 digit area code +pseudo 8 digit/overlay phone number system:

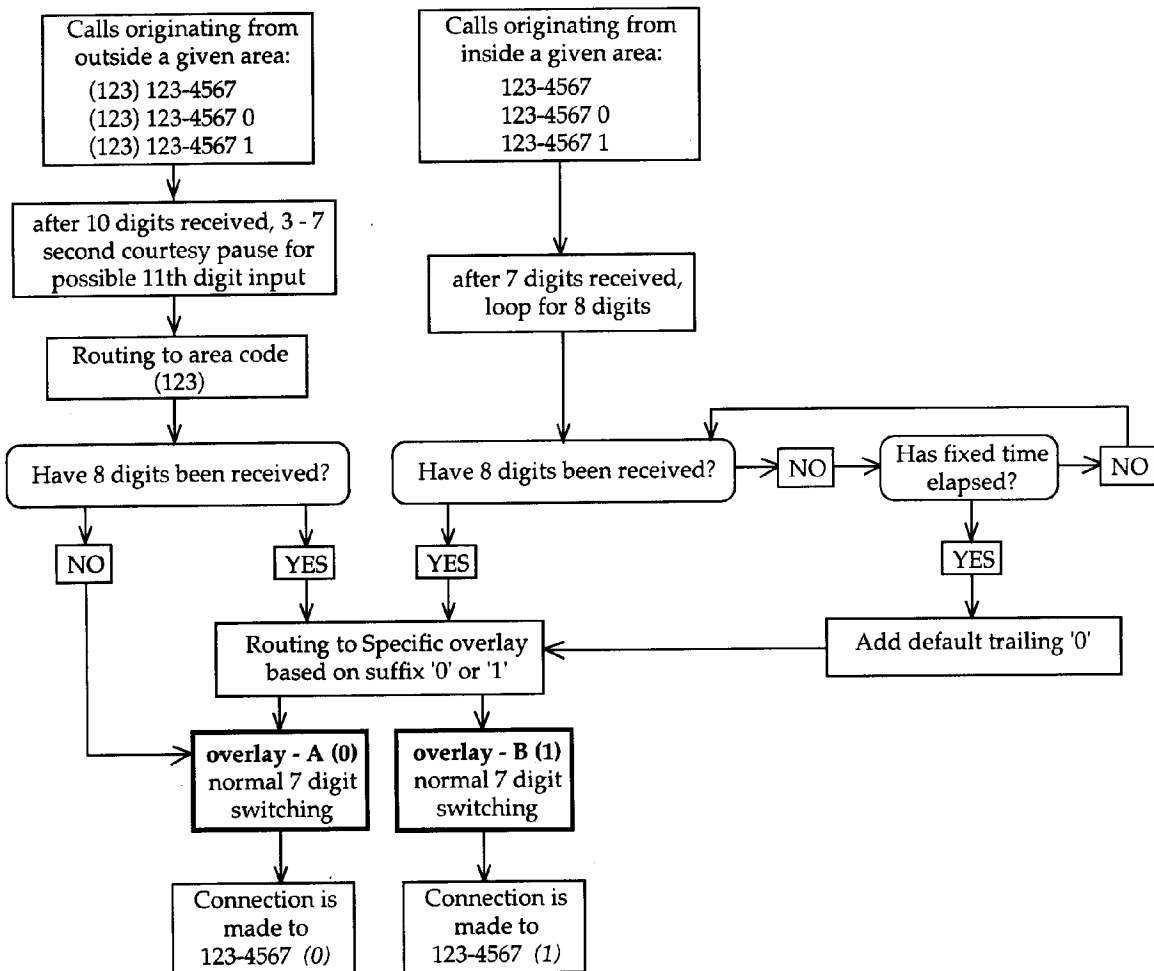


FIG. 7

Here is how the new numbers would be allocated:

- (123) 123-4567 current number now.
- (123) 123-4567 0 current number under my proposed plan.
note: the trailing '0' would not need to be entered by the user.
Phone company equipment will automatically add the '0' after
a fixed time (3 - 7 seconds) to complete the call if only 7 digits
have been entered by the user.
- (123) 123-4567 1 first generation of new numbers under my proposed plan.

and if more numbers
are later needed...

- (123) 123-4567 2
(123) 123-4567 3
(123) 123-4567 4
(123) 123-4567 5
(123) 123-4567 6
(123) 123-4567 7
(123) 123-4567 8
(123) 123-4567 9
- note:** the trailing '1 - 9' would need to be entered by
the user. Since these are new numbers, they will
always be known as 8 digit numbers from the time
they are first issued, and will be memorized, listed
in directories and dialed as such.

At some point far into the future even more numbers might be needed. The same non-
disruptive system could be used to expand again at that time.

- (123) 123-4567 00 current number far into the future.
note: neither of these trailing '0's would need to be entered. If
only 7 digits were entered, the phone company would
automatically add the '0' or '00' after the fixed time. Thus,
the original 7 digit number could still be reached by only
dialing the original 7 digits.

- (123) 123-4567 10 first generation of new numbers far into the future.
note: the new trailing '0' would not need to be dialed.
Phone company equipment would automatically
add the trailing '0' just as it would for the original
7 digit numbers. So, no directories or habits would
need updating even for these numbers.
- (123) 123-4567 20
(123) 123-4567 30
(123) 123-4567 40
(123) 123-4567 50
(123) 123-4567 60
(123) 123-4567 70
(123) 123-4567 80
(123) 123-4567 90

- (123) 123-4567 11 (12 13 14 15 16 17 18 19) second generation of new numbers.
(123) 123-4567 21 (22 23 24 25 26 27 28 29)
(123) 123-4567 31 (32 33 34 35 36 37 38 39)
(123) 123-4567 41 (42 43 44 45 46 47 48 49)
(123) 123-4567 51 (52 53 54 55 56 57 58 59)
(123) 123-4567 61 (62 63 64 65 66 67 68 69)
(123) 123-4567 71 (72 73 74 75 76 77 78 79)
(123) 123-4567 81 (82 83 84 85 86 87 88 89)
(123) 123-4567 91 (92 93 94 95 96 97 98 99)

FIG. 8

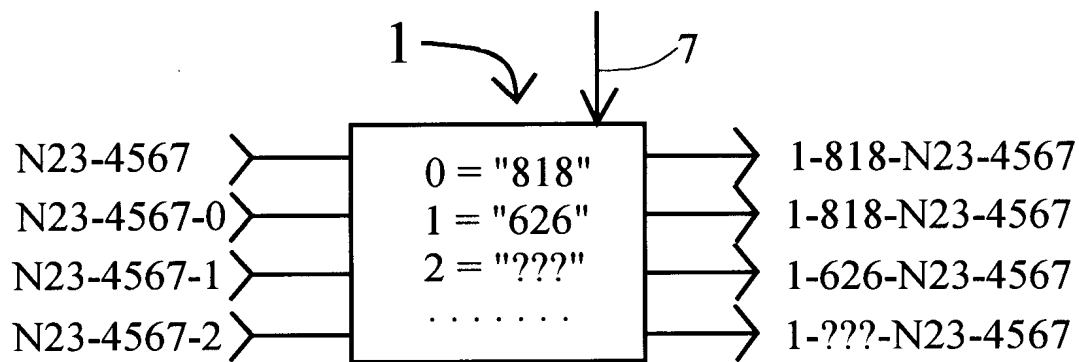


FIG. 9a

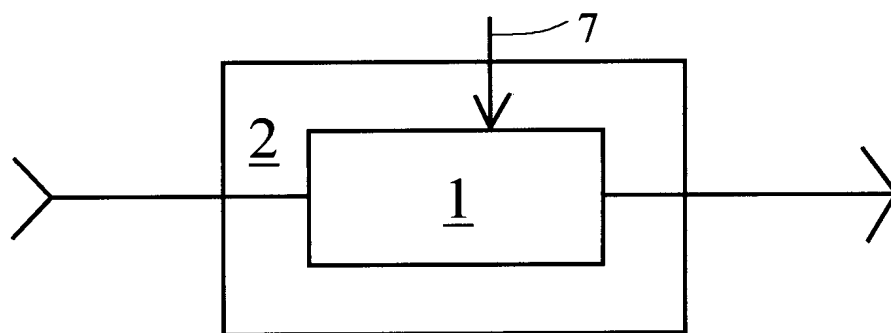


FIG. 9b

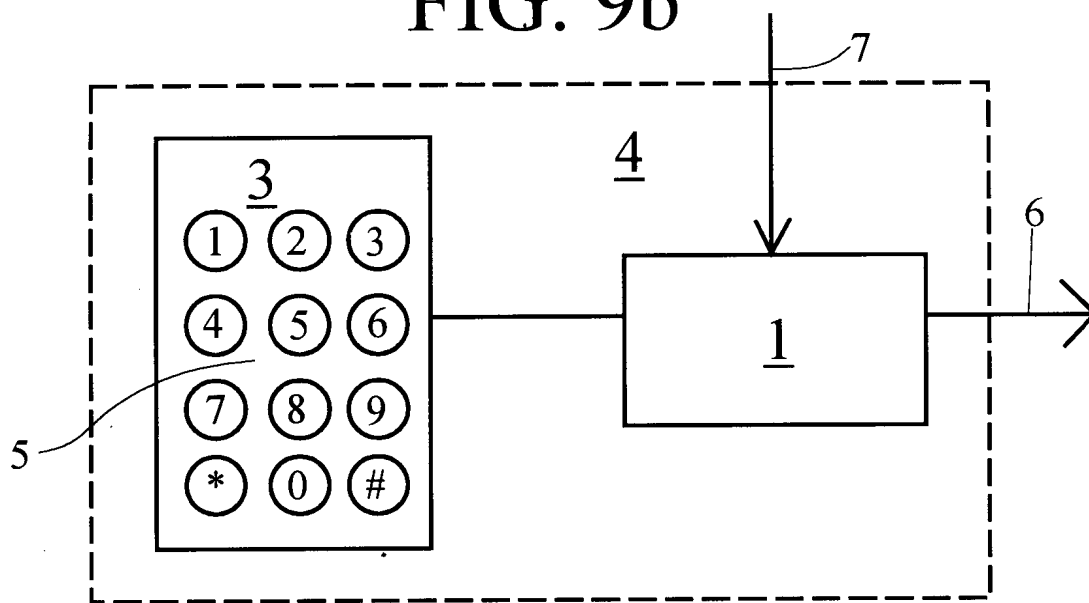


FIG. 9c

UDPFO LOGIC FLOW DIAGRAM WITH INTERACTIVE OR NON-INTERACTIVE ANNOUNCEMENT

Traditional Testing and Routing: Same process that is currently used for determining if an Area Code or a CO Code is being dialed.

If the Region Supports Interactive Announcements:

A short delay is provided after the 7th digit to allow people familiar with the plan to enter the proper selector digit. If the selector digit is not entered in time, an announcement will describe "To reach the 310 area code dial 0; to reach the 424 area code dial 1".

If the Region Supports Non-Interactive Announcements:

A delay is provided after the 7th digit to allow people familiar with the plan to enter the proper selector digit. If the selector digit is not entered in time, a non-interactive announcement will describe how to redial using the 8 digit system (see below).

Note: Level "0" = the original area code;
Level "1" = the first overlay area code.

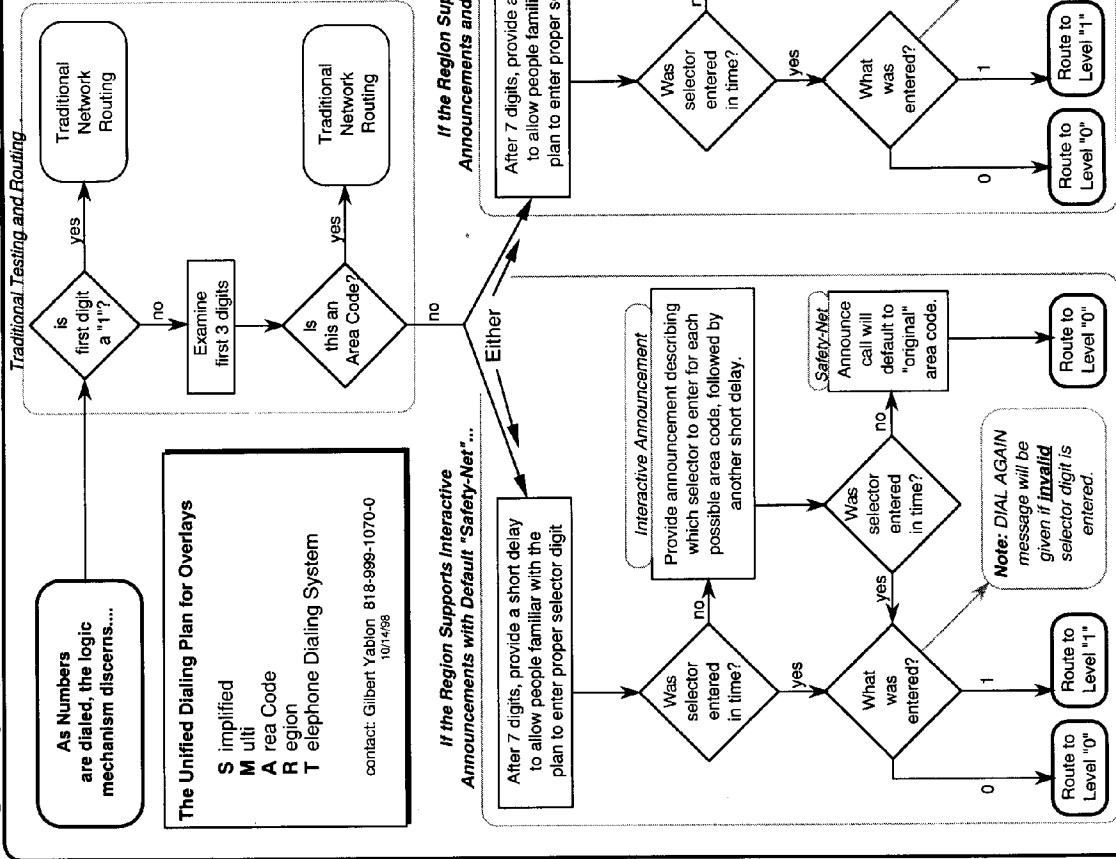


Fig. 10

Note: This diagram shows two "less sophisticated" implementations of the plan. These variations do not make use of CO Code ambiguity testing, and might be simpler for the network to support.

UDPFO LOGIC FLOW DIAGRAM with INTERACTIVE ANNOUNCEMENT

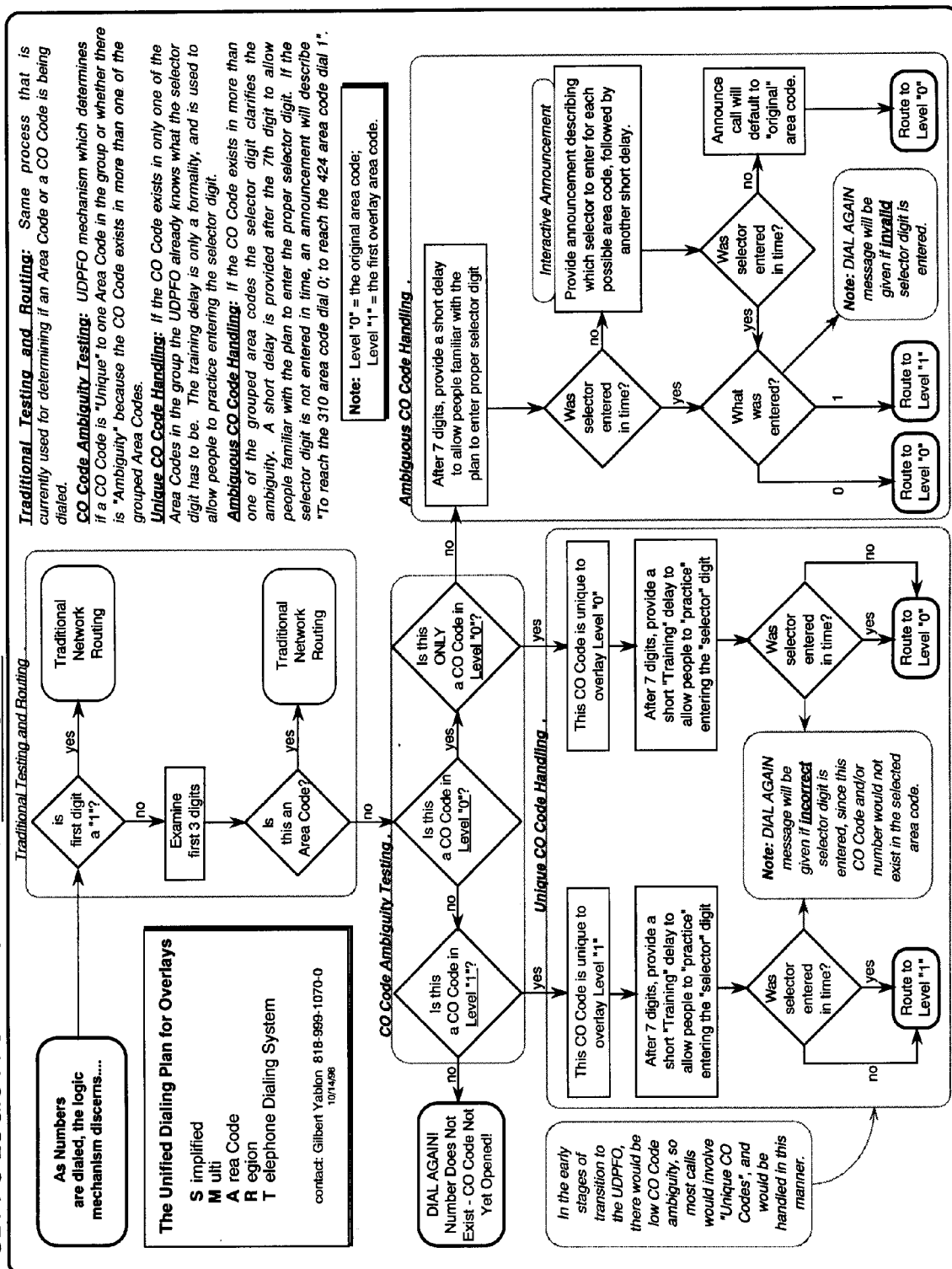
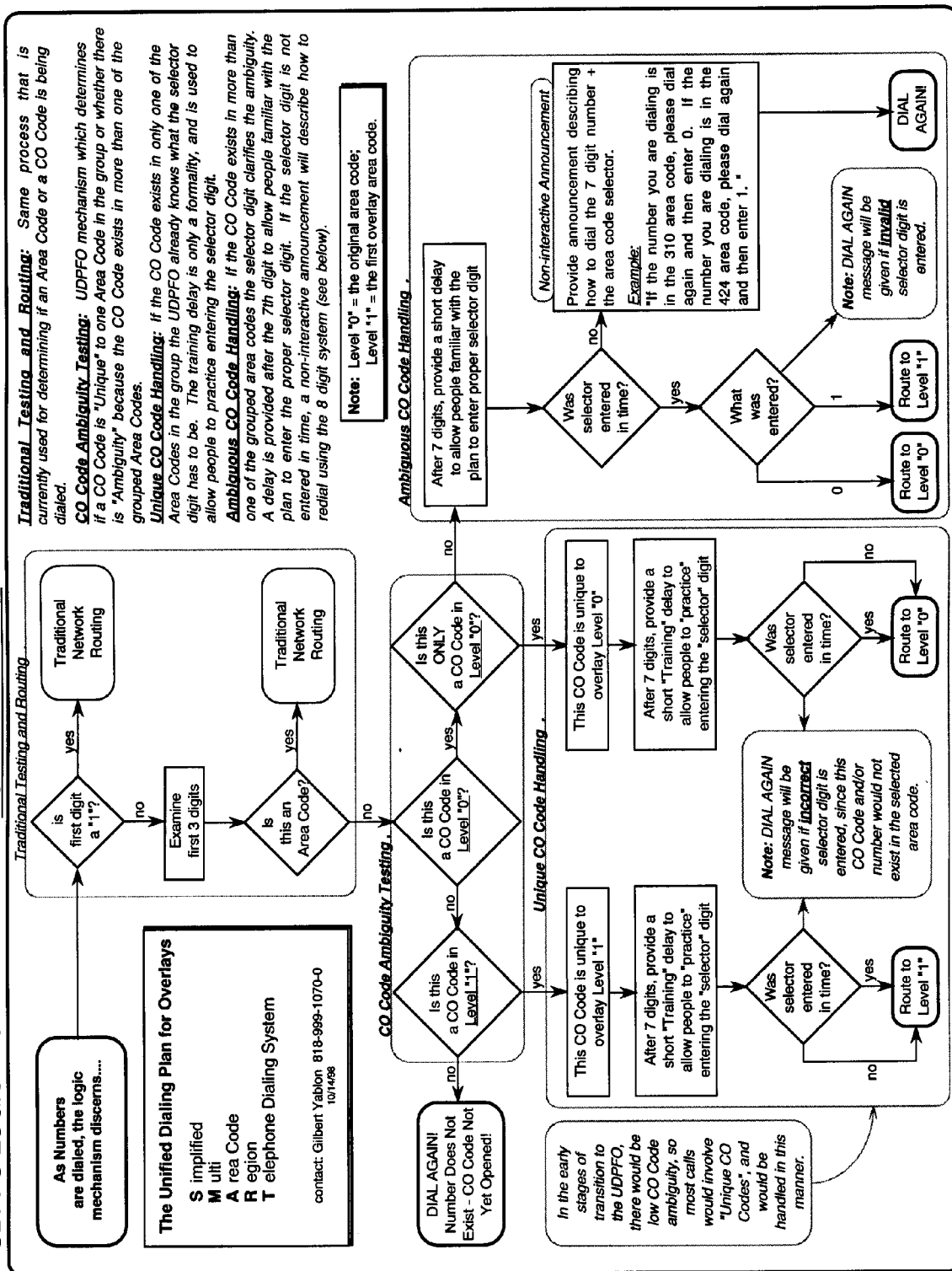
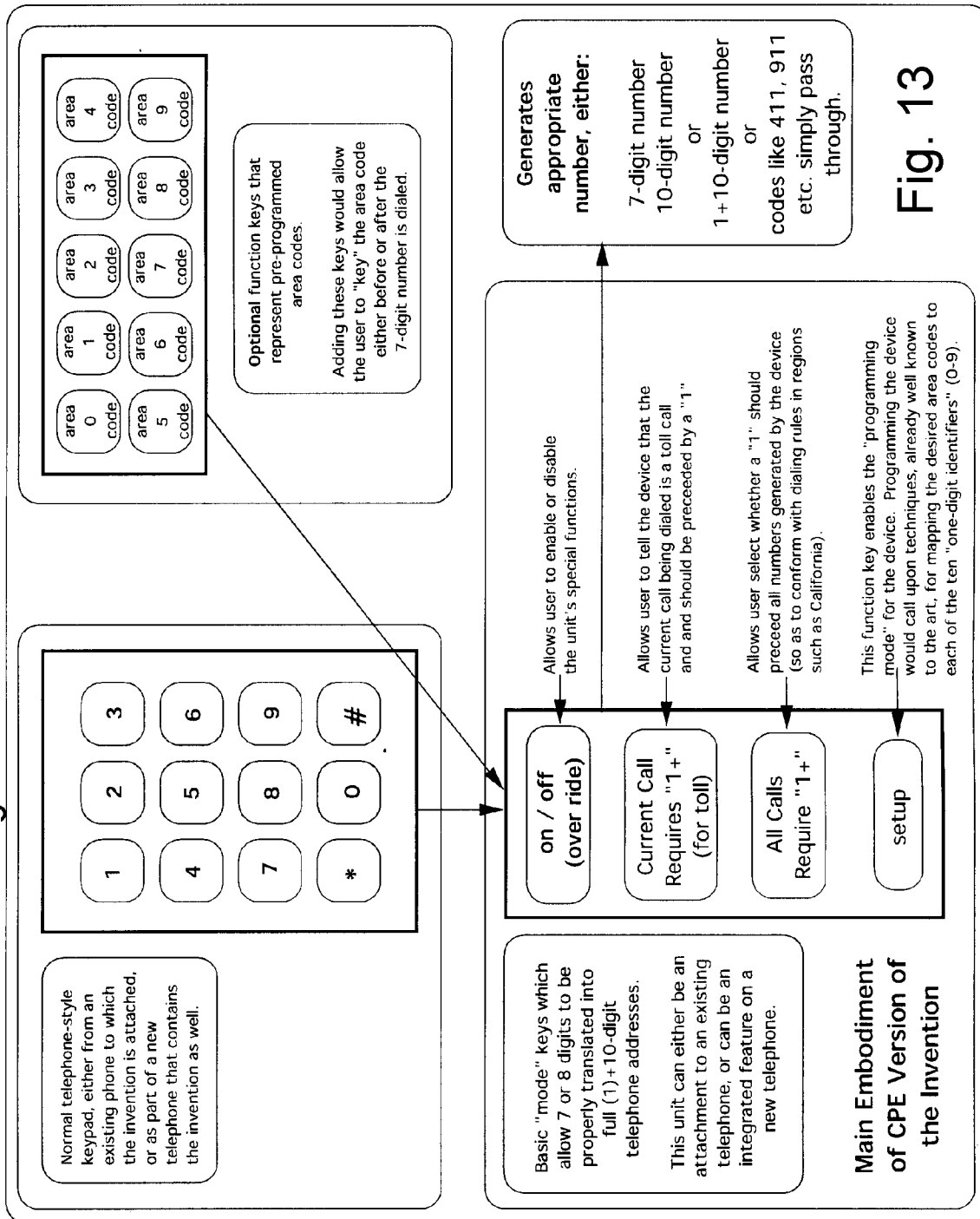


Fig. 12

UDPFO LOGIC FLOW DIAGRAM with NON-INTERACTIVE ANNOUNCEMENT



Block Diagram of CPE Version of the Invention.



Traditional Testing and Routing / 5-digit area code adaptation

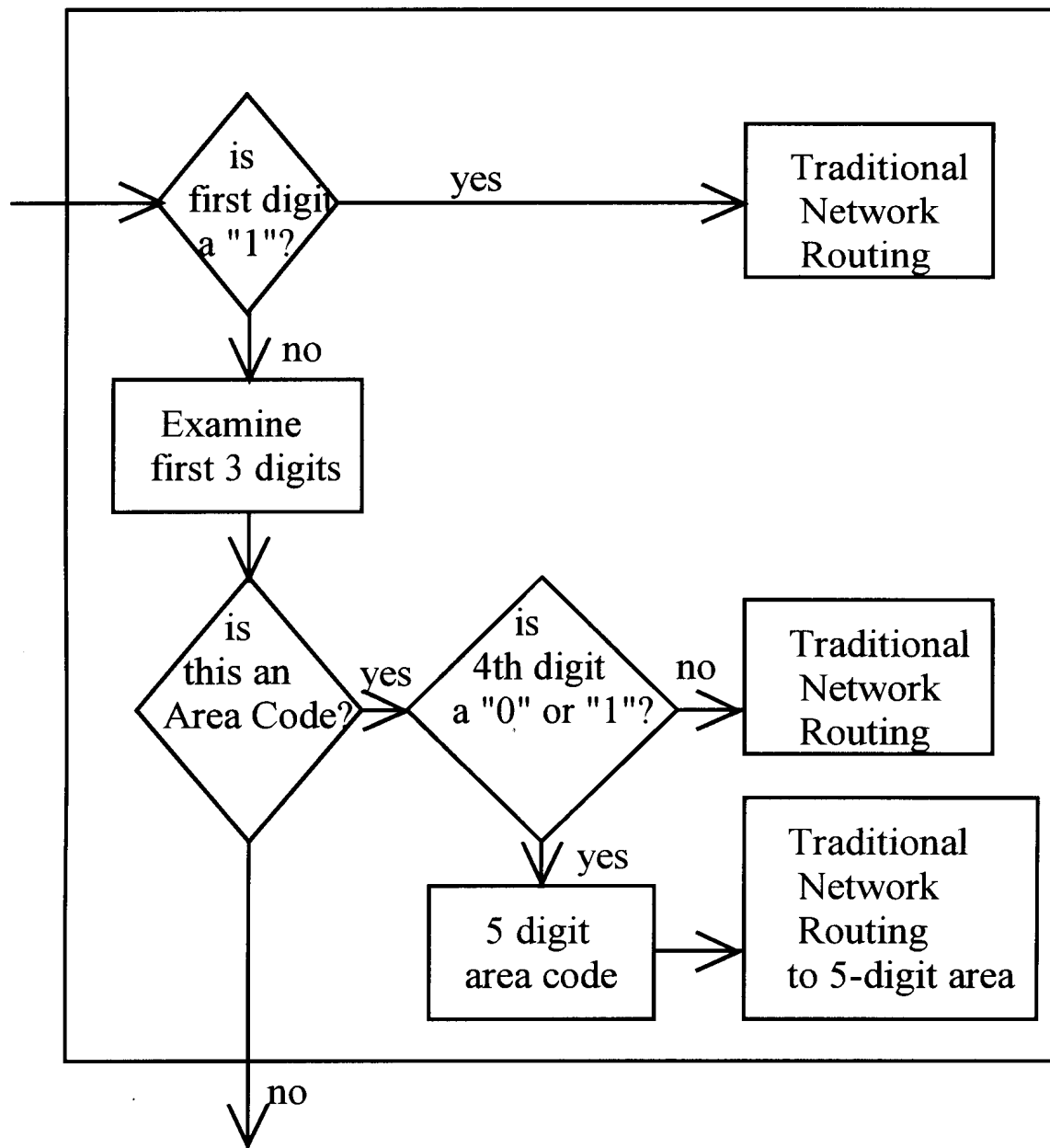


FIG. 14